

VIRGINIA ELECTRIC AND POWER COMPANY  
RICHMOND, VIRGINIA 23261

U.S. Nuclear Regulatory Commission June 11, 2012  
Attention: Document Control Desk  
Washington, DC 20555

Serial No. 12-208B  
NL&OS/WDC R0  
Docket Nos. 50-280/281  
License Nos. DPR-32/37

**VIRGINIA ELECTRIC AND POWER COMPANY**  
**SURRY POWER STATION UNITS 1 AND 2**  
**90 DAY RESPONSE TO MARCH 12, 2012 INFORMATION REQUEST**  
**REGARDING RECOMMENDATION 9.3 FOR EMERGENCY PREPAREDNESS**

**Reference:** NRC Letter, "Request for Information Pursuant to Title 10 of the Code of Federal Regulations 50.54(f) Regarding Recommendations 2.1, 2.3, and 9.3, of the Near-Term Task Force Review of Insights from the Fukushima Dai-ichi Accident," dated March 12, 2012.

On March 12, 2012, the Nuclear Regulatory Commission (NRC) staff issued the referenced letter. Enclosure 5 of the letter contains specific Requested Actions and Requested Information associated with Recommendation 9.3 for Emergency Preparedness (EP) programs. In accordance with 10 CFR 50.54, "Conditions of licenses," paragraph (f), addressees were requested to submit a written response to the information requests. The letter also specified due dates for written responses.

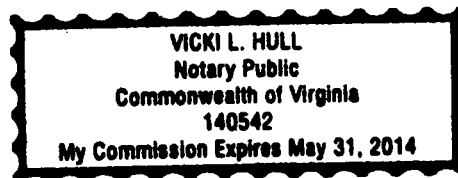
In accordance with the referenced letter, on May 9, 2012, Virginia Electric and Power Company (Dominion) submitted an alternative course of action for providing the requested information. The alternative course of action included revised information due dates and the basis for those dates. As described in the alternative course of action, this letter transmits the responses to the following information requests.

- Enclosure 5, Communications request #2
- Enclosure 5, Staffing request #3
- Enclosure 5, Staffing request #4
- Enclosure 5, Staffing request #5

If you have any questions regarding this information, please contact Gary D. Miller at (804) 273-2771.

Sincerely,

David A. Heacock  
President and Chief Nuclear Officer  
Virginia Electric and Power Company



COMMONWEALTH OF VIRGINIA )  
 )  
COUNTY OF HENRICO )

The foregoing document was acknowledged before me, in and for the County and Commonwealth aforesaid, today by David A. Heacock, who is President and Chief Nuclear Officer of Virginia Electric and Power Company. He has affirmed before me that he is duly authorized to execute and file the foregoing document in behalf of that company, and that the statements in the document are true to the best of his knowledge and belief.

Acknowledged before me this 11<sup>TH</sup> day of June, 2012.

My Commission Expires: MAY 31, 2014  
Vicki L. Hull  
Notary Public

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Commitments made in this letter: No new regulatory commitments.

Enclosures:

1. Actions and Requested Information Associated with Recommendation 9.3 for Emergency Preparedness – Communications
2. Actions and Requested Information Associated with Recommendation 9.3 for Emergency Preparedness – Staffing

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NRC Senior Resident Inspector  
Surry Power Station

**ENCLOSURE 1**

**ACTIONS AND REQUESTED INFORMATION ASSOCIATED WITH  
RECOMMENDATION 9.3 FOR EMERGENCY PREPAREDNESS**

**COMMUNICATIONS**

**SURRY POWER STATION UNITS 1 AND 2  
VIRGINIA ELECTRIC AND POWER COMPANY**

**Enclosure 1**  
**Actions and Requested Information Associated with**  
**Recommendation 9.3 for Emergency Preparedness**

**Communications**

Request #2 – Addressees are requested to describe any interim actions that have been taken or are planned to be taken to enhance existing communications systems power supplies until the communications assessment and the resulting actions are complete.

**Actions Taken or Planned**

| <b>Action</b>  | <b>Estimated Completion Date</b>   |
|--|--|
| Purchase/Contract for two (2) portable diesel generators with AC power cables to power temporary lighting and support emergency response and communications functions.   | Purchase Order issued 3/29/2012 for delivery between 8/14/2012 and 12/13/2012. |
| Purchase/Contract for five (5) Iridium Satellite Phones, Model 9575 Extreme Satellite Phone (or equivalent) - Emergency Responder Package with Solar Panel to provide communications capability in the event of unavailability of cellular and land-line phones to Operations and the Emergency Response Organization (ERO). | Purchase Order issued 3/29/2012 for delivery between 8/14/2012 and 12/13/2012. |

**ENCLOSURE 2**

**ACTIONS AND REQUESTED INFORMATION ASSOCIATED WITH  
RECOMMENDATION 9.3 FOR EMERGENCY PREPAREDNESS**

**STAFFING**

**SURRY POWER STATION UNITS 1 AND 2  
VIRGINIA ELECTRIC AND POWER COMPANY**

**Enclosure 2**  
**Actions and Requested Information Associated with**  
**Recommendation 9.3 for Emergency Preparedness**

**Staffing**

Request #3 – Identify how the augmented staff would be notified given degraded communications capabilities.

**Methods for Notification Under Degraded Communications Capabilities:**

Assumptions:

1. On-site communications infrastructure remains available.
2. Offsite infrastructure supporting communications systems are inoperable in a 25 mile radius area surrounding the plant site.
3. Communications infrastructure in locations beyond the 25 mile radius area is not significantly impacted by the event.
4. Communications equipment located at an offsite response facility, and supplied from a backup power source, remains available.

Note: Assumptions are consistent with the EP communications assessment being performed as specified in the 60 day response to the March 12, 2012 Information Request.

| Method                            | Description   | Estimated Completion Date |
|-----------------------------------|---|---------------------------|
| <b>Pre-planned Response</b>       | A pre-planned response will be developed and personnel will be appropriately instructed to ensure the ERO response following a defined "major event" is consistent with provided expectations. Pursuant to this process, the ERO will report directly to the station or to predetermined staging areas.   | 12/31/2012                |
| <b>Satellite Phone Activation</b> | Satellite phone will be used to activate the ERO callout process. Once activated, the system initiates pager notification and automatic phone calls to ERO personnel.   | 12/31/2012                |
| <b>Local Radio Broadcast</b>      | This method is a defense-in-depth adjunct to Pre-planned Response. Local radio station Emergency Alert System (EAS) broadcasts will be used to instruct ERO members in the event of a major event or disaster when normal means of communication are not available. It will be designed to provide information to enable augmented ERO personnel to respond to the event more effectively. ERO members outside the 25 mile zone, or those within the 25 mile zone with car radios or other battery-powered radios, would be able to receive these broadcasts. | 12/31/2012                |

Request #4 – Identify the methods of access (e.g., roadways, navigable bodies of water and dockage, airlift, etc.) to the site that are expected to be available after a widespread large scale natural event.

**Methods for Site Access Following Large Scale Natural Event:**

| <b>Method</b> | <b>Description</b>  | <b>Estimated Completion Date</b> |
|---------------|---|----------------------------------|
| Roadway       | <p>There is one major roadway into the Surry Power Station: State Route 650 (Hog Island Road). State Route 650 intersects State Route 617 (Bacons Castle Trail) and then State Route 628 (Burnt Mill Road) approximately 5 miles from the Owner Controlled Area checkpoint. Directly or indirectly from this intersection, Routes 617, 628 (via Route 627, Mantura Road, or Route 676, Fort Hunger Drive), and 650 lead to Route 10 (Colonial Trail East in Surry County and Old Stage Road in Isle of Wight County). Route 10 runs northwest and southeast as it connects to the road network.</p> <p>From population centers on the north side of the James River, access to the station may depend on functionality of the Benjamin Harrison Bridge (Routes 106/156), the Jamestown-Scotland Ferry (Route 31), and the James River Bridge (Routes 17/32/258). From the southeast, access to the station may depend on functionality of bridges in the Bridge Road (Route 17) corridor (the Hazelwood Bridge over the Chuckatuck Creek between Isle of Wight and the City of Suffolk and Mills E. Godwin Bridge over the Nansemond River in the City of Suffolk).</p> <p>An agreement is in place with the Virginia State Police to permit passage of Virginia Electric and Power Company (Dominion) personnel if roads are closed, but safe passage is possible.</p> <p>Inside the Owner Controlled Area checkpoint, Route 650 crosses over the Discharge Canal. The Local Emergency Operations Facility (LEOF) is on the north side of the Discharge Canal and in the event</p> | Agreement is in place.           |

| Method | Description  | Estimated Completion Date                                 |
|--------|--|---|
|        | this bridge was unavailable, vehicle access would be limited, either through the Protected Area or around the Intake Canal. However, ERO would be able to bypass the Discharge Canal and walk to the LEOF after parking in the station parking area. |   |
| Air    | Access to Surry Power Station can be provided from staging areas via helicopters arranged by Dominion or the Virginia Department of Emergency Management.  | Evaluate the need for a specific agreement by 12/31/2012. |
| Sea    | Surry Power Station can also be accessed from the James River. Dominion will evaluate the use of boats for transport of personnel.<br><br>Note: This means of transport may not be an option during a severe storm.                                  | Evaluate use of boats by 12/31/2012.                      |

Request #5 – Identify any interim actions that have been taken or are planned prior to the completion of the staffing assessment.

**Interim Actions Taken or Planned:**

| Action   | Estimated Completion Date |
|--|---------------------------|
| Develop procedure for ERO notification under degraded communications capabilities (Request #3 above).              | 12/31/2012                |
| Develop procedure for implementing control of site access following large scale natural event (Request #4 above).  | 12/31/2012                |
| Develop and implement training for ERO notification under degraded communications capabilities (Request #3 above). | 12/31/2012                |
| Develop and implement training for control of site access following large scale natural event (Request #4 above).  | 12/31/2012                |
| Evaluate the use of boats for transport of personnel.  | 12/31/2012                |